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UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,972	11/07/2001	Kjeld Borch Egevang	42P11644	2706

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BLAKELY SOKOLOFF TAYLOR & ZAFMAN
12400 WILSHIRE BOULEVARD
SEVENTH FLOOR
LOS ANGELES, CA 90025-1030

EXAMINER
PERUNGAVOOR, VENKATANARAY

ART UNIT	PAPER NUMBER
2132	

DATE MAILED: 02/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *19 January 2006*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-28* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-28* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set

   forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since

   this application is eligible for continued examination under 37 CFR 1.114, and the

   fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous

   Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's

   submission filed on 1/19/2006 has been entered.

Response to Arguments

2. The Applicant's arguments regarding Claim 1, 9,15, 22, and 26 are not

   persuasive. As Alkhatib(U.S. Patent 6,119,171) discloses the translating an

   external address to an internal address using a list of security identifiers and a

   set of heuristics see Abstract & Fig. 10 item 506 & Fig. 11 item 512 & Col 6 Ln

   59- Col 7 Ln 5. And further, Alhatib discloses several algorithms to be used to get

   the best possible path to destination using a number of factors see Col 5 Ln 17-

   36 & Col 6 Ln 27-33.

3. The text of those sections of Title 35, U.S. Code not included in this action can

   be found in a prior Office action.

Response to Amendment

4. Claim 1-28 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 6,119,171 to Alkhatib.

5. Regarding Claim 1, Alkhatib discloses the receiving of encrypted packet having an identifier and an external address that represents a plurality of internal addresses; translating an external address by selecting one of the internal addresses associated with identifier using a set of heuristics and a list of identifiers and communicating the encrypted packet to the selected internal address see Fig. 10 item 502 & Col 13 Ln 24-55 & Abstract & Col 5 Ln 17-36 & Col 6 Ln 27-33(Alkhatib discloses the use of several routing algorithms based on several factors for getting the packet to destination). See also arguments above.

6. Regarding Claim 2, 13, Alkhatib discloses the searching a list of identifiers having associated times; selecting an identifier having an earliest time; and retrieving the internal address associated with the selected identifier see Col 11 Ln 50- Col 12 Ln 21 & Col 6 Ln 27-33.

7. Regarding Claim 3, Alkhatib discloses the creating a list and searching the created list see Col 6 Ln 63-Col 7 Ln 5.

8. Regarding Claim 4, 14, Alkhatib discloses the receiving of encrypted packets

having predetermined sequence number and an identifier associated with

internal address see Col 6 Ln 24-26 & Col 8 Ln 67- Col 9 Ln 4 ; determining a

time the packet was received and associating time and internal addresses with

identifier see Col 6 Ln 27-33 & Fig. 3 items 66, 62, 64 and 80; storing the

identifier with associated time and associated internal address see Col. 10 Ln 43-

53.

9. Regarding Claim 8, Alkhatib discloses the receiving the message that is

encrypted was communicated to incorrect address and further determining

activity levels and communicating the packet to the one with highest activity level

see Col 5 Ln 17-36.

10. Regarding Claim 9, Alkhatib discloses the creating a list of identifiers with each

terminating at a device having an internal address, translating the internal

addresses to a external address see Col 6 Ln 63- Col 7 Ln 31; the receiving of

encrypted packet having an identifier and an external address that represents a

plurality of internal addresses; translating an external address by selecting one of

the internal addresses associated with identifier using a set of heuristics and a

list of identifiers and communicating the encrypted packet to the selected internal

address see Fig. 10 item 502 & Col 13 Ln 24-55 & Abstract & Col 5 Ln 17-36 &

Col 6 Ln 27-33(Alkhatib discloses the use of several routing algorithms based on several factors for getting the packet to destination). See also arguments above.

11. Regarding Claim 15, Alkhatib discloses the creating of list of identifiers terminating at a device with internal address and selecting an internal address using a list of identifiers and set of heuristics for encrypted packet with external address and identifier see Col 6 Ln 63- Col 7 Ln 31 & Fig. 10 & Col 5 Ln 17-36 & Col 6 Ln 27-33 & Fig. 11 item 512(Alkhatib discloses the use of several routing algorithms based on several factors for getting the packet to destination).

12. Regarding Claim 16, Alkhatib discloses the communicating the encrypted packet to the selected internal address see Fig. 10 item 502 & Col 13 Ln 24-55.

13. Regarding Claim 17, Alkhatib discloses the first net work sending of encrypted packets to an external address see Col 2 Ln 66- Col 3 Ln 28; a second network to receive the packets and translate the external address to an internal address using a set of heuristics see Col 13 Ln 24-55 & Col 5 Ln 17-36 & Col 6 Ln 27-33(Alkhatib discloses the use of several routing algorithms based on several factors for getting the packet to destination); a third network to receive the encrypted packet see Col 13 Ln 49-55.

14. Regarding Claim 18, Alkhatib discloses the use of natural address

translation(NAT) see Col 2 Ln 13-29.

15. Regarding Claim 22, Alkhatib discloses the storage medium see Col 10 Ln 22-

53; the stored medium having instructions that result in receiving an encrypted

packet having identifier and an external address that represents a plurality of

internal address, translating an external address by selecting one of the internal

addresses associated with identifier using a set of heuristics and a list of

identifiers and communicating the encrypted packet to the selected internal

address see Fig. 10 item 502 & Col 13 Ln 24-55 & Abstract & Col 5 Ln 17-36 &

Col 6 Ln 27-33(Alkhatib discloses the use of several routing algorithms based on

several factors for getting the packet to destination); a third network to receive

the encrypted packet see Col 13 Ln 49-55. See also arguments above.

16. Regarding Claim 23, Alkhatib discloses the searching a list of identifiers having

associated times; selecting an identifier having an earliest time; and retrieving the

internal address associated with the selected identifier see Col 11 Ln 50- Col 12

Ln 21 & Col 6 Ln 27-33.

17. Regarding Claim 24, Alkhatib discloses the creating a list and searching the

created list see Col 6 Ln 63-Col 7 Ln 5.

18. Regarding Claim 25, Alkhatib discloses the receiving of encrypted packets having predetermined sequence number and an identifier associated with internal address see Col 6 Ln 24-26 & Col 8 Ln 67- Col 9 Ln 4 ; determining a time the packet was received and associating time and internal addresses with identifier see Col 6 Ln 27-33 & Fig. 3 items 66, 62, 64 and 80; storing the identifier with associated time and associated internal address see Col. 10 Ln 43-53.

19. Regarding Claim 26, Alkhatib discloses the storage medium see Col 10 Ln 22-53; the creating a list of identifiers with each terminating at a device having an internal address, translating the internal addresses to a external address see Col 6 Ln 63- Col 7 Ln 31; the receiving of encrypted packet having an identifier and an external address that represents a plurality of internal addresses; translating an external address by selecting one of the internal addresses associated with identifier using a set of heuristics and a list of identifiers and communicating the encrypted packet to the selected internal address see Fig. 10 item 502 & Col 13 Ln 24-55 & Abstract & Col 5 Ln 17-36 & Col 6 Ln 27-33(Alkhatib discloses the use of several routing algorithms based on several factors for getting the packet to destination); a third network to receive the encrypted packet see Col 13 Ln 49-55. See also arguments above.

20. Regarding Claim 27, Alkhatib discloses the searching a list of identifiers having associated times; selecting an identifier having an earliest time; and retrieving the internal address associated with the selected identifier see Col 11 Ln 50- Col 12 Ln 21 & Col 6 Ln 27-33.

21. Regarding Claim 28, Alkhatib discloses the receiving of encrypted packets having predetermined sequence number and an identifier associated with internal address see Col 6 Ln 24-26 & Col 8 Ln 67- Col 9 Ln 4 ; determining a time the packet was received and associating time and internal addresses with identifier see Col 6 Ln 27-33 & Fig. 3 items 66, 62, 64 and 80; storing the identifier with associated time and associated internal address see Col. 10 Ln 43-53.

Claim Rejections - 35 USC § 103

22. Claim 5-7, 10-12, 19-21, rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,119,171 to Alkhatib in view of EP 1130846 A2 to Nexland.
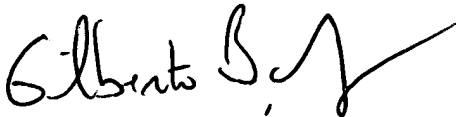
23. Regarding Claim 5-7, 10-12, Alkhatib does not disclose the packet being encrypted according to Internet Security Association and Key Management Protocol(ISAKMP), Encapsulating Security Payload(ESP), and identifier being a Security Parameter Index(SPI). However, Nexland discloses the ISAKMP, ESP and SPI see Col 5 Ln 26-39 & Col 5 Ln 4-16. It would be obvious to one having ordinary skill in the art at the time of the invention to include ISAKMP and ESP in

the invention of Alkhatib in order to secure environment for communication as
taught in Nexland see Par 0012 Ln 40-43.

Conclusion

24. Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Venkatanarayanan Perungavoor whose
telephone number is 571-272-7213. The examiner can normally be reached on
8-4:30. If attempts to reach the examiner by telephone are unsuccessful, the
examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The
fax phone number for the organization where this application or proceeding is
assigned is 571-273-8300.

25. Information regarding the status of an application may be obtained from the
Patent Application Information Retrieval (PAIR) system. Status information for
published applications may be obtained from either Private PAIR or Public PAIR.
Status information for unpublished applications is available through Private PAIR
only. For more information about the PAIR system, see http://pair-
direct.uspto.gov. Should you have questions on access to the Private PAIR
system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-
free).

Venkatanarayanan Perungavoor

GILBERTO BARRON JR.
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100